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**Economic Commission for Europe**

Inland Transport Committee

**World Forum for Harmonization of Vehicle Regulations****Working Party on Brakes and Running Gear****Eightieth session**

Geneva, 15-18 September 2015

Item 7(e) of the provisional agenda

**Tyres – Regulation No. 106****Proposal for amendments to Regulation No. 106 (Tyres for Agricultural Vehicles)****Submitted by the experts from the European Tyre and Rim Technical Organisation\***

The text reproduced below was prepared by the experts from the European Tyre and Rim Technical Organisation (ETRTO) amending Annex 5 and Annex 7 as far as Improved Flexion (IF) tyres and Very high Flexion (VF) tyres are concerned. The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

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\* In accordance with the programme of work of the Inland Transport Committee for 2012–2016 (ECE/TRANS/224, para. 94 and ECE/TRANS/2012/12, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

## I. Proposal

Annex 5, table 4, amend to read:

"Drive wheel tyres for agricultural tractors - Low section series

<i>Tyre size designation (I)</i>	<i>Theoretical rim width code (A1)</i>	<i>Nominal section width (S1) (mm)</i>	<i>Overall diameter (D) (mm)</i>	<i>Nominal rim diameter (d) (mm)</i>
300/70R20	9	295	952	508
320/70R20	10	319	982	508
320/70R24	10	319	1 094	610
320/70R28	10	319	1 189	711
360/70R20	11	357	1 042	508
360/70R24	11	357	1 152	610
360/70R28	11	357	1 251	711
380/70R20	12	380	1 082	508
380/70R24	12	380	1 190	610
380/70R28	12	380	1 293	711
420/70R24	13	418	1 248	610
420/70R28	13	418	1 349	711
420/70R30	13	418	1 398	762
480/70R24	15	479	1 316	610
480/70R26	15	479	1 372	660
480/70R28	15	479	1 421	711
480/70R30	15	479	1 478	762
480/70R34	15	479	1 580	864
480/70R38	15	479	1 681	965
520/70R26	16	516	1 456	660
520/70R30	16	516	1 536	762
520/70R34	16	516	1 640	864
520/70R38	16	516	1 749	965
580/70R38	18	577	1 827	965

(1) "Improved flexion tyres" are identified by means of the letters "IF" added in front of the size designation (e.g. IF480/70R38) ; "Very high flexion tyres" are identified by means of the letters "VF" added in front of the size designation (e.g. VF480/70R38) – see paragraph 3.1.12. of this Regulation."

Annex 7- Variation of load capacity with speed, amend to read:

"Part A: Drive wheel tyres for agricultural tractors

Applicable to tyres classified with categories of use: "Tractor drive wheel"  
(see paragraph 2.20. of this Regulation)

## Variation of load carrying capacity (per cent)

Speed (km/h)	Speed category symbol						(1)
	A2	A6 (+)	A8 (+)	D (+)	A8 (2)	D (2)	
10	[0]	+40	+50	+50	0	0	+ 58
15	-6	+30	+34	+34	0	0	+ 32
20	-11	+20	+23	+23	0	0	+ 26
25	-16	+7	+11	+18,5	0	0	+ 19
30	-20	[0]	+7	+15	0	0	+ 12
35	-24	<del>-51</del>	+3	+12	0	0	+ 10
40	-27	<del>-102</del>	[0]	+9,5	[0]	0	+ 6
45	-	-	-4	+7	-4	0	+ 2
50	-	-	-9	+5	-9	0	[0]
55	-	-	-	+3	-	0	-
60	-	-	-	+1,5	-	0	-
65	-	-	-	[0]	-	[0]	-
70	-	-	-	-9	-	-9	-

The above load/speed variations apply when the tyre is not subjected to sustained high torque service.

- (+) For field applications with sustained high torque service the values shown in the line 30 km/h apply.
- (1) These percentages apply only in case of tyres listed in Annex 5, Table 7, with nominal rim diameter (d) 381 mm and above, marked with speed symbol "B"
- (2) These above load/speed variations ~~table does not~~ apply to IF and VF Tyres."

## II. Justification

1. In order to permit interchangeability and to properly identify the tyre family the note below table 4 of Annex 5 clarifies that the table applies also to IF and VF tyres; in that case the appropriate size designation is clearly explained.
2. The revision of the table in Annex 7 is in accordance to International standards (e.g. ETRTO, T&RA and ISO 4351-2 table 2) as far as it concerns IF and VF tyres. This proposal will also avoid any possible misunderstanding for the application of the EC Regulation 167/2013 that refers to Regulation No. 106. Such revision is also needed for conformity with the EC Reg. 2015/208 – Annex XXX.
3. This document supersedes and replaces Informal document GRRF-79-32.